United States
Department of the Interior
Bureau of Land Management

**ORIGINAL** 

## FIELD NOTES

OF

THE DEPENDENT RESURVEY OF

A PORTION OF THE SUBDIVISIONAL LINES,

**AND** 

PORTIONS OF THE SUBDIVISION OF SECTIONS 16 AND 21,

AND THE

SURVEY OF PORTIONS OF THE

SUBDIVISION OF SECTIONS 16 AND 21,

IN

TOWNSHIP 1 SOUTH, RANGE 4 WEST

OF THE UINTAH SPECIAL MERIDIAN
IN THE STATE OF UTAH

EXECUTED BY

Richard A. Zaninovich Cadastral Surveyor

Under special instructions dated *July 9, 1991*, approved *July 12, 1991*, which provided for the surveys included under Group Number 771, and assignment instructions dated *July 11, 1991*.

Survey commenced *July 29, 1991*Survey completed *August 22, 1991* 

INDEX DIAGRAM
Township 1 South, Range 4 West

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## TOWNSHIP 1 SOUTH, RANGE 4 WEST, UINTAH SPECIAL MERIDIAN, UTAH

### CHAINS

The following field notes describe the dependent resurvey of a portion of the subdivisional lines, and portions of the subdivision of sections 16 and 21, and the survey of portions of the subdivision of sections 16 and 21, in Township 1 South, Range 4 West, Uintah Special Meridian, Utah.

D.G. Major surveyed the subdivisional lines of this township and subdivided sections 16 and 21 by the "Three Mile Method" in 1882. This method of survey requires variance from standard procedures with the utilization of local collateral evidence and two-point control. Jerry D. Allred, RLS 3817, and Clinton S. Peatross, RLS 4779, have executed surveys for landowners in this area.

The survey was executed in accordance with the specifications set forth in the Manual of Surveying Instructions, 1973, and the Special Instructions for Group No. 771, dated July 9, 1991.

The directions of lines were determined by hour angle observations of the sun and Polaris, carried forward by sustained angulation. Distances were determined by electronic measurement.

Preliminary to the resurvey the lines of the original survey were retraced and a diligent search was made for any evidence of the original field note record. Identified corners were remonumented in their original positions; lost corners were restored and monumented at proportionate positions based on the original record. The retracement data were thoroughly verified and only the true line notes are given herein.

Note: Magnets were set at the base of all aluminum post monuments.

The geographic position of the corner of sections 21, 22, 27, and 28, as determined by a tie made to National Geodetic Survey station, "ALTONAH" is as follows:

Latitude 40° 22' 25.66" N. Longitude 110° 19' 52.84" W. N.A.D. 1927

The mean magnetic declination is 13 1/2° E.

Dependent Resurvey of a Portion of the Subdivisional Lines, T. 1 S., R. 4 W., Uintah Special Meridian, Utah

Reestablishment of the Survey Executed by D.G. Major in 1882

Beginning at the point for the N 1/16 section corner of sections 21 and 22, at proportionate distance; there is no remaining evidence of the original corner.

**CHAINS** 

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 24 ins. in the ground, with aluminum cap marked:

Raise a mound of stone west of the corner.

Corner is located in an old fence line which bears east and west and approximately 150 lks. east and 50 lks. south of the corner of newer fences projecting north, south and west.

From this corner, the corner of sections 21, 22, 27, and 28, bears S. 0° 09' W., 57.33 chs. distance; this control line was retraced and the intervening 1/4 and 1/16 corners searched for but not found. Corner is monumented with a spike set in a mound of stone at the projected intersection of fences, which bear south and west; this is accepted as the best available evidence of the position of the original corner.

At the corner point

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 22 ins. in the ground, in a collar of stone, with aluminum cap marked:

Deposit spike inside aluminum post.

N. 0° 09' E., between sections 21 and 22.

19.11

Point for the corner of sections 15, 16, 21, and 22, determined at record westing from the 1/4 section corner of sections 15 and 22, and record southing from the S 1/16 section corner of sections 15 and 16; there is no remaining evidence of the original corner. This position is harmoniously related to locally accepted corners north and east of the Lake Fork River. Extensive retracements by local surveyors have disclosed large errors in the original record measurements between identified corners south and west of the river and those to the north and east. This method of corner restoration requires two point control and is used in order to isolate the errors in the original survey to the lines which cross the Lake Fork River.

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 24 ins. in the ground, in a large collar of stone, with aluminum cap marked:

#### CHAINS

From this corner, the point for the 1/4 section corner of sections 15 and 22, bears N. 88° 48' E., 40.06 chs. distance; this control line was retraced and the intervening 1/16 section corner searched for but not found. Corner point was determined at the intersection of the center lines of lanes which bear north, south and east.

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 24 ins. in the ground, with aluminum cap marked:

Raise a mound of stone north of the corner.

From this corner, a rebar 1/2 in. diameter, paneled for photo identification, bears North, 15 lks. distance.

N. 0° 23' E., between sections 15 and 16.

20.00

Point for the S 1/16 section corner of sections 15 and 16, determined at the projected intersection of the center line of a lane which projects north 3/4 mile with a fence which bears east and west.

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 24 ins. in the ground, in a collar of stone, with aluminum cap marked:

N. 0° 32' E., beginning new measurement.

19.95

The 1/4 section corner of sections 15 and 16, determined at the corner of fences, which bear east, west, and south, from which the center line of a lane projects north; not remonumented.

N. 0° 32' E., beginning new measurement.

20.00

Point for the N 1/16 section corner of sections 15 and 16, determined at the projected intersection of the section line with a fence which bears east.

#### CHAINS

Set a rebar 12 ins. long, 3/4 in. diameter, flush with the surface of the ground at the center line of a lane which bears north and south.

40.03

The corner of sections 9, 10, 15, and 16, monumented with a spike set flush with the surface of roads, which bear north, south, east, and west; this is accepted as the best available evidence of the position of the original corner.

From this corner, U.S. Geological Survey benchmark "M45", bears S. 58° W., 0.92 chs. distance.

From this same corner, National Geodetic Survey station "ALTONAH", bears N.  $17^{\circ}$  58' 38" E., 508.01 chs. distance

From the corner of sections 15, 16, 21, and 22.

N. 86° 45' W., between sections 16 and 21.

20.22

Point for the E 1/16 section corner of sections 16 and 21, at proportionate distance; there is no remaining evidence of the original corner.

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 24 ins. in the ground, in a collar of stone, with aluminum cap marked:

40.44

Point for the 1/4 section corner of sections 16 and 21, at proportionate distance; there is no remaining evidence of the original witness corner.

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 20 ins. in the ground, in a collar of stone, with aluminum cap marked:

60.66

Point for the W 1/16 section corner of sections 16 and 21, determined at the projected intersection of a fence, which bears east, and the center line of a road which bears north and south.

Set a railroad spike flush with the surface of the road.

### CHAINS

from which

An aluminum post, 30 ins. long, 2 1/2 ins. diameter, set 24 ins. in the ground for a reference monument, bears N. 44° 52' E., 38 lks. distance, with aluminum cap marked: RM W1/16 S16 1991 25FT and an arrow pointing to the corner.

An aluminum post, 30 ins. long, 2 1/2 ins. diameter, set 24 ins. in the ground for a reference monument, bears N. 45° 08' W., 38 lks. distance, with aluminum cap marked: RM W1/16 S16 1991 25FT and an arrow pointing to the corner.

N. 89° 59' W., beginning new measurement.

## 19.915

Point for the corner of sections 16, 17, 20, and 21, at single proportionate distance between the W 1/16 section corner of sections 16 and 21, and the 1/4 section corner of sections 17 and 20, as determined by Clinton S. Peatross, RLS 4779, and shown on an unrecorded plat of a 1985 survey for James T. Lindsay; this position is accepted locally and is harmoniously related to nearby corners and lines of occupation.

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 30 ins. in the ground in a hay field, with aluminum cap marked:

Corner is located 12 lks. west of the corner of newly built fences, projecting north and east.

From this corner, the 1/4 section corner of section 17 and 20, bears N. 89° 59' W., 39.72 chs. distance; this control line was retraced and the intervening 1/16 section corner searched for but not found. Corner was determined at the corner of fences projecting north and east; not remonumented.

N. 0° 26' E., between sections 16 and 17.

## 19.74

Point for the S 1/16 section corner of sections 16 and 17, determined at the projected intersection of the section line with a fence which bears west.

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 24 ins. in the ground, in a collar of stone, with aluminum cap marked:

### CHAINS

Corner is located 180 lks. east of the corner of fences projecting west and southeast and 180 lks. north of the corner of fences projecting south and northwest.

38.67

Point for the 1/4 section corner of sections 16 and 17, at proportionate distance; there is no remaining evidence of the original corner.

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 24 ins. in the ground, in a collar of stone, with aluminum cap marked:

57.60

Point for the N 1/16 section corner of sections 16 and 17, at proportionate distance; there is no remaining evidence of the original corner.

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 24 ins. in the ground, with aluminum cap marked:

Raise a mound of stone west of the corner.

76.53

Point for the corner of sections 8, 9, 16, and 17, determined latitudinally at the center line of a road, which bears east and west and longitudinally at proportionate distance.

Set a rebar, 12 ins. long, 3/4 in. diameter, flush with the surface of the road.

from which

An aluminum post, 30 ins. long, 2 1/2 ins. diameter, set 24 ins. in the ground for a reference monument, bears S. 44° 34' E., 57.6 lks. distance, with aluminum cap marked: RM T1S R4W S16 1991 38FT and an arrow pointing to the corner; monument is located in a fence, which bears east and west.

An aluminum post, 30 ins. long, 2 1/2 ins. diameter, set 24 ins. in the ground for a reference monument, bears S. 45° 26' W., 57.6 lks. distance, with aluminum cap marked: RM T1S R4W S17 1991 38FT and an arrow pointing to the corner; monument is located in a fence which bears east and west.

### CHAINS

From this corner, the 1/4 section corner of sections 8 and 17, bears N. 87° 04' W., 40.43 chs. distance; this control line was retraced and the intervening 1/16 corner searched for but not found. Corner is monumented with a PK nail set in the surface of a road, which bears east and west at the projected intersection of the center line of this road with a fence, which bears north; this is accepted as the best available evidence of the position of the original corner.

From the 1/4 section corner of sections 9 and 16, monumented with a spike set in the surface of a road, which bears east and curves northwest; corner is positioned latitudinally at midpoint between right-of-way fences and longitudinally at proportionate distance; this is accepted as a careful and faithful reestablishment of the position of the original corner.

This corner was referenced by Jerry D. Allred, RLS 3817, Duchesne County Surveyor, as follows:

Nails and washers set in concrete in iron pipe fence posts bear:

S. 3° 25' W., 33.15 ft.

S. 14° 10' W., 34.08 ft.

S. 37° 09' W., 41.28 ft.

S. 43° 46' W., 45.40 ft.

Iron pipe fence posts set east and west of a cattleguard bear:

N. 63° 18' E., 78.12 ft.

N. 69° 01' E., 97.16 ft.

Nail and washer driven in a power pole bears:

N. 72° 53' E., 142,47 ft.

Nail and washer driven in a fence corner post bears:

N. 75° 57' E., 142.59 ft.

From this corner, the corner of sections 9, 10, 15, and 16, bears N. 89° 42' E., 40.30 chs. distance; this control line was retraced and the intervening 1/16 corner searched for but not found.

N. 89° 25' W., between sections 9 and 16.

## CHAINS

20.15

The W 1/16 section corner of sections 9 and 16, monumented with a rebar, 1/2 in. diameter, with plastic cap marked: RLS 3817; corner is positioned latitudinally 33 ft. north of a fence which bears east and west and longitudinally at proportionate distance; this is accepted as a careful and faithful reestablishment of the position of the original corner.

At the corner point

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 24 ins. in the ground, with aluminum cap marked:

Deposit rebar inside aluminum post.

Raise a mound of stone north of the corner.

N. 89° 58' W., beginning new measurement.

20.15

The corner of sections 8, 9, 16, and 17.

Dependent Resurvey of a Portion of the Subdivision of Section 16, T. 1 S., R. 4 W., Uintah Special Meridian, Utah

From the point for the center N 1/16 section corner of section 16, at proportionate distance; there is no remaining evidence of the original witness corner.

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 20 ins. in the ground, in a collar of stone, with aluminum cap marked:

From this corner the N 1/16 section corner of sections 15 and 16, bears S. 89° 13' E., 40.28 chs. distance; this control line was retraced and the intervening 1/16 corner searched for but not found.

N. 89° 13' W., on the center line of the N 1/2 of section 16.

20.14

Point for the NW 1/16 section corner of section 16, at proportionate distance; there is no remaining evidence of the original corner.

#### CHAINS

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 20 ins. in the ground, in a collar of stone, with aluminum cap marked:

NW 1/16 | S16 1991

## 40.28

The N 1/16 section corner of sections 16 and 17.

From the point for the center 1/4 section corner of section 16, at proportionate distance; no original corner was set.

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 24 ins. in the ground, with aluminum cap marked:

T1S R4W C 1/4 S16 1991

Raise a mound of stone west of the corner.

Corner is located approximately 10 ft. north and 30 ft. west of the corner of fences, projecting north, east and west.

From this corner, the point for the 1/4 section corner of sections 15 and 16, bears S. 88° 27' E., 40.26 chs. distance; this control line was retraced and the intervening 1/16 corner searched for but not found.

N. 88° 27' W., on the E-W center line of section 16.

## 20.13

Point for the center W 1/16 section corner of section 16, at proportionate distance; there is no remaining evidence of the original corner.

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 24 ins. in the ground, with aluminum cap marked:

Raise a mound of stone west of the corner.

## 40.26

The 1/4 section corner of sections 16 and 17.

From the S 1/16 section corner of sections 15 and 16.

N. 87 $^{\circ}$  44' W., on the center line of the S 1/2 of section 16.

## CHAINS **20.26**

Point for the SE 1/16 section corner of section 16, at proportionate distance; there is no remaining evidence of the original corner.

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 24 ins. in the ground, with aluminum cap marked:

40.52

Point for the center S 1/16 section corner of section 16, at proportionate distance; there is no remaining evidence of the original corner.

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 20 ins. in the ground, in a collar of stone, with aluminum cap marked:

Corner is located in a fence, which bears irregularly north and south approximately 100 ft. north of its intersection with a fence which bears east and west.

60.78

Point for the SW 1/16 section corner determined at the intersection of the center line of the S 1/2 of section 16 with the center line of a road which projects south.

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 20 ins. in the ground, in a collar of stone, with aluminum cap marked:

From this corner a rebar, 1/2 in. diameter, bears south, 46 lks. distance; this point was established using a proportionate point for the S 1/16 section corner of sections 16 and 17 to control the alignment of the center line of the S 1/2 of section 16 and is therefore not utilized in the course of this resurvey.

80.52

The S 1/16 section corner of sections 16 and 17.

Dependent Resurvey of a Portion of the Subdivision of Section 21, T. 1 S., R. 4 W., Uintah Special Meridian, Utah

From the N 1/16 section corner of sections 21 and 22.

N. 87° 39' W., on the center line of the N 1/2 of section 21.

CHAINS **20.15** 

Point for the NE 1/16 section corner of section 21, at proportionate distance; there is no remaining evidence of the original corner.

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 24 ins. in the ground, with aluminum cap marked:

Corner is located approximately 1 chain south of a fence which bears east and west.

40.30

Point for the center N 1/16 section corner of section 21, at proportionate distance; there is no remaining evidence of the original witness corner.

Set an aluminum post, 30 ins. long, 2 1/2 ins. diameter, 24 ins. in the ground, with aluminum cap marked:

Raise a mound of stone west of the corner.

60.45

Point for the NW 1/16 section corner of section 21, determined at the projected intersection of the center line of a road, which bears north and south and a fence which bears west.

Set a railroad spike flush with the surface of the road.

from which

A nail and bottle cap, driven in a power pole, bears East, 16.5 ft. distance.

A nail and bottle cap, driven in a power pole, bears West, 16.5 ft. distance.

Survey of a Portion of the Subdivision of Section 16, T. 1 S., R. 4 W., Uintah Special Meridian, Utah

From the 1/4 section corner of sections 16 and 21.

N. 0° 02' E., on the N-S center line of section 16.

19.31

The center S 1/16 section corner.

# Survey of a Portion of the Subdivision of Section 16, T. 1 S., R. 4 W., Uintah Special Meridian, Utah

CHAINS	
	From the center 1/4 section corner.  N. 0° 29' E., beginning new measurement.
	The center N 1/16 section corner.
	N. 0° 31' E., beginning new measurement.
	The 1/4 section corner of sections 9 and 16.
	From the E 1/16 section corner of sections 16 and 21.
	From the E 1/16 section corner of sections 16 and 21.  N. 0° 12' E., on the N-S center line of the SE 1/4 of section 16.
19.65	The SE 1/16 section corner.
	From the W 1/16 section corner of sections 16 and 21.  N. 0° 08' W., on the N-S center line of the SW 1/4 of section 16.
	N. 0° 08' W., on the N-S center line of the SW 1/4 of section 16.
18.96	The SW 1/16 section corner.
	The SW 1/16 section corner.  N. 1° 37' E., beginning new measurement.
19.18	The center W 1/16 section corner.
	The center W 1/16 section corner.  N. 0° 27' E., on the N-S center line of the NW 1/4.
19.20	The NW 1/16 section corner.
	N. 0° 28' E., beginning new measurement.  The W 1/16 section corner of sections 9 and 16.
	The W 1/16 section corner of sections 9 and 16.

# Survey of a Portion of the Subdivision of Section 21, T. 1 S., R. 4 W., Uintah Special Meridian, Utah

19.44 19.76	Survey of a Portion of the Subdivision of Section 21, T. 1 S., R. 4 W., Uintah Special Meridian, Utah
	From the NE 1/16 section corner.
	N. 0° 02' W., on the N-S center line of the NE 1/4.
19.44	The E 1/16 section corner of sections 16 and 21.
	From the center N 1/16 section corner.
	N. 0° 11' W., on the N-S center line.
19.76	The 1/4 section corner of sections 16 and 21.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

## FIELD ASSISTANTS

Name	Capacity			
Brandon S. Sanchez	Survey Aid			
N. Todd Snyder	Survey Aid			

## **CERTIFICATE OF SURVEY**

I, Richard A. Zaninovich, Cadastral Surveyor, hereby certify upon honor that, in pursuance of special instructions bearing the date of the 9th day of July, 1991, I have dependently resurveyed a portion of the subdivisional lines, and portions of the subdivision of sections 16 and 21; and surveyed portions of the subdivision of sections 16 and 21, in Township 1 South, Range 4 West,

of the Uintah Special Meridian, in the State of Utah, which are represented in the foregoing field notes

as having been executed by me and under	my direction; and that said survey has been made in strict
conformity with said special instructions, the	ne Manual of Instructions for the Survey of the Public Lands
of the United States, and in specific manne	er described in the foregoing field potes,
10-4-95	/9ACO Ceth
Date	Richard A. Zaninovich (Cadastral Surveyor)
Date	(Cadastral Surveyor)

## **CERTIFICATE OF APPROVAL**

BUREAU OF LAND MANAGEMENT Salt Lake City, Utah

The foregoing field notes of the dependent resurvey of a portion of the subdivisional lines, and portions of the subdivision of sections 16 and 21; and the survey of portions of the subdivision of sections 16 and 21, Township 1 South, Range 4 West, Uintah Special Meridian, Utah,

executed by Richard A. Zaninovich, Cadastral Surveyor

having been critically examined and found correct, are hereby approved.

April 18, 1996

Date

(Chief Cadastral Surveyor, Utah State Office)